

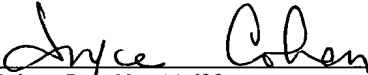


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Joyce Cohen, Reg. No. 44,622

Patent
Attorney's Docket No. AMI-009-RC2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)	
)	
Thomas E. JENKINS, et al.)	
)	Group Art Unit: 1627
Application No.: 10/075,017)	
)	Examiner: Unassigned
Filed: February 13, 2002)	
)	
For: NOVEL THERAPEUTIC AGENTS FOR)	
MEMBRANE TRANSPORTERS)	

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Enclosed herewith is a modified form PTO-1449 listing documents for consideration by the Examiner.

Application No. 10/075,017
Attorney Docket No. AMI-009-RC2

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Pursuant to § 1.98, those patents or publications which are marked with an asterisk (*) on the attached PTO-1449 form are not supplied because they were previously cited or submitted to the Office in prior application no. 09/499,176 filed February 7, 2000 and relied upon in this application for an earlier filing date under 35 U.S.C. § 120. The Examiner is requested to obtain copies of these documents from the parent application. If however, copies are not with the USPTO file, copies will be supplied upon the Examiner's request.

Additionally, the following documents were cited in the International Search Report for the corresponding PCT Application No. PCT/US99/12754. A copy of the International Search Report is enclosed for the convenience of the Examiner.

1. U.S. Patent No. 5,422,372, issued June 6, 1995, to Silverstein et al.
2. International Publication No. 92/05802, published April 16, 1992.
3. International Publication No. 94/04194, published March 3, 1994.
4. International Publication No. 97/35195, published September 25, 1997.
5. Cole et al., "Discovery of Chiral Catalysts through Ligand Diversity: Ti-Catalyzed Enantioselective Addition of TMS-CN to *meso* Epoxides", *Angew. Chem. Int'l. Ed. Engl.* 35(15):1668-1671.
6. Gardiner, John M., "The Therapeutic Potential of Synthetic Multivalent Carbohydrates," *Exp. Opin. Invest. Drugs.* 7(3):405-411 (1998).
7. Liang, et al. "Parallel Synthesis and Screening of a Solid Phase Carbohydrate Library", *Science*, 274:1520-1522 (1996).
8. Menger et al., "Phosphatase Catalysis Developed via Combinatorial Organic Chemistry," *J. Org. Chem.* 60:6666-6667 (1995).
9. Shuker et al., "Discovering High Affinity Ligands for Proteins: SAR by NMR," *Science*, 274:1531-1534 (1996).

The following documents were cited in the Written Opinion for the corresponding PCT Application No. PCT/US99/12754.

10. U.S. Patent No. 5,463,564, issued October 3, 1995, to Agrafiotis et al.
11. U.S. patent No. 5,686,495, issued November 11, 1997, to Goldin et al.
12. Portoghese, P.S., "The Role of Concepts in Structure-Activity Relationship Studies of Opioid Ligands," *J. Med. Chem.* 35(11):1927-1937 (1992).
13. Zeng et al., "Automated Analytical/Preparative High-performance Liquid Chromatography-Mass Spectrometry System for the Rapid Characterization and Purification of Compound Libraries," *J. Chrom. A.*, 796:3-13 (1998).

The following documents were cited in the Search Report for the corresponding European Patent Application No. EP 99 92 8447. A copy of the European Search Report is enclosed for the convenience of the Examiner.

14. International Publication No. WO 97/09317, published March 13, 1997.

The following documents were cited in the Search Report for the corresponding Singapore Patent Application No. 9902725-2. A copy of the Search Report is enclosed for the convenience of the Examiner.

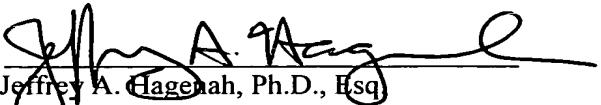
15. International Publication No. WO 96/11213, published April 18, 1996.
16. International Publication No. WO 98/03632, published January 29, 1998.
17. International Publication No. WO 98/11436, published March 19, 1998.
18. European Patent No. 0398367 A2, published November 22, 1990.

This IDS is being filed within three months of the application filing date and prior to a first Office Action on the merits, therefore no fee or certification is required under 37 C.F.R. § 1.97(b).

To assist the Examiner, the documents are listed on the attached form PTO-1449. Applicants respectfully request that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

THERAVANCE, INC.
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APR 30 2002

FORM PTO-1449
(REV. 12/96)U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Attorney's Docket No.

AMI-009-RC2

Serial No.

10/075,017

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Applicant

Thomas E. JENKINS et al.

Filing Date

February 13, 2002

Group Art Unit

Unknown

U.S. PATENT DOCUMENTS

Examiner Initial	Ref. No.	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	A1	*5,422,372	6/6/95	Silverstein et al.			
	A2	*5,463,564	10/3/95	Agrafiotis et al.			
	A3	*5,686,495	11/17/97	Goldin et al.			
	A4						

FOREIGN PATENT DOCUMENTS

Examiner Initial	Ref. No.	Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	B1	*92/05802	4/16/92	PCT				
	B2	*94/04194	3/3/94	PCT				
	B3	*96/11213	4/18/96	PCT				
	B4	*97/09317	3/13/97	PCT				
	B5	*97/35195	9/25/97	PCT				
	B6	*98/03632	1/29/98	PCT				
	B7	*98/11436	3/19/98	PCT				
	B8	*0398367 A2	11/22/90	Europe				
	B9							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

C1	*Ackerman, M.J. et al., "Ion Channels-Basic Science and Clinical Disease," <i>NEJM</i> 336:1575-1586 (1997).
C2	*Cole et al., "Discovery of Chiral Catalysts through Ligand Diversity: Ti-Catalyzed Enantioselective Addition of TMSCN to <i>meso</i> Epoxides", <i>Angew. Chem. Int'l. Ed. Engl.</i> 35(15):1668-1671.
C3	*Gardiner, John M., "The Therapeutic Potential of Synthetic Multivalent Carbohydrates," <i>Exp. Opin. Invest. Drugs.</i> 7(3):405-411 (1998).
C4	*Gordon, E.M. et al., "Applications of Combinatorial Technologies to Drug Discovery. 2. Combinatorial Organic Synthesis, Library Screening Strategies, and Future Directions," <i>J. Med. Chem.</i> , 37(10):1385-1401 (1994).
C5	*Gottesman, M.M., et al., "Biochemistry of Multidrug Resistance Mediated by the Multidrug Transporter," <i>Annu. Rev. Biochem.</i> , 62:385-427 (1993).
C6	*Higgins, C.F., ABC TRansporters: from Microorganism to Man," <i>Annu. Rev. Cell Biology</i> , 8:67-113 (1992).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if references considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered.
Include copy of this form with next communication to applicant.

FORM PTO-1449 (REV. 12/96)		U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office		Attorney's Docket No. AMI-009-RC2	Serial No. 10/075,017
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicant Thomas E. JENKINS et al.	
				Filing Date February 13, 2002	Group Art Unit unknown
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)					
	C7	*Joslyn, A.F. et al., "Dimeric 1,4-Dihydropyridines as Calcium Channel Antagonists," <i>J. Med. Chem.</i> , 31:1489-1492 (1988).			
	C8	*Kahrilas, P.J., "Gastroesophageal Relax Disease," <i>J. Am. Med. Assoc.</i> , 276:983-988 (1996)			
	C9	*Liang, et al. "Parallel Synthesis and Screening of a Solid Phase Carbohydrate Library", <i>Science</i> , 274:1520-1522 (1996).			
		*Menger et al., "Phosphatase Catalysis Developed via Combinatorial Organic Chemistry," <i>J. Org. Chem.</i> 60:6666-6667 (1995).			
	C10	*Nakaido, H., "Prevention of Drug Access to Bacterial Targets: Permeability Barriers and Active Efflux," <i>Science</i> , 264:382-388 (1994).			
	C11	*Portoghese, P.S., "The Role of Concepts in Structure-Activity Relationship Studies of Opioid Ligands," <i>J. Med. Chem.</i> , 35(11):1927-1937 (1992).			
	C12	*Shuker et al., "Discovering High Affinity Ligands for Proteins: SAR by NMR," <i>Science</i> , 274:1531-1534 (1996).			
	C13	*Task Force of the Working Group on Arrhythmias of the European Society of Cardiology, "A New Approach to the Classification of Antiarrhythmic Drugs Based on Their Actions on Arrhythmogenic Mechanisms," <i>Circulation</i> , 84:1831-1851 (1991).			
	C14	*Zeng et al., "Automated Analytical/Preparative High-performance Liquid Chromatography-Mass Spectrometry System for the Rapid Characterization and Purification of Compound Libraries," <i>J. Chrom. A.</i> , 796:3-13 (1998).			
	C15				
	C16				
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